Listing of Claims

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1. (Currently Amended) A syringe for mounting to an injector for injecting fluids into an animal subject, said syringe comprising:

a cylindrical barrel;

a plunger snugly slidable in said cylindrical barrel, said plunger having a rearwardly facing drive ram engaging coupling element thereon in the shape of a rearwardly facing extension, wherein said rearwardly facing extension is knurled at least along the portion of said extension adapted to be within an area enveloped by a coupling mechanism, said knurls being a series of ridges or grooves, and said rearwardly facing extension does not extend outside of said cylindrical barrel in at least one position of said plunger; and

a discharge tip in fluid communication with a forward end of said cylindrical barrel.

- 2. (Canceled)
- 3. (Original) The syringe of claim 1 further comprising a conical front wall disposed between said cylindrical barrel and said discharge tip.

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- 4. (Previously Presented) The syringe of claim 1 further comprising syringe mating sections positioned in a plane perpendicular to the longitudinal axis of the cylindrical barrel, wherein said syringe mating sections facilitate mounting of said syringe to an injector.
- 5. (Currently Amended) The syringe of claim 4 <u>further comprising injector mating</u>
 <u>sections disposed on an injector</u> wherein said syringe mating sections are arranged so
 as to align with said injector mating sections <u>disposed on said injector</u>.
- 6. (Original) The syringe of claim 5 wherein said syringe mating sections include a radially outwardly extending annular flange.
- 7. (Canceled)

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8. (Currently Amended) An injector for injecting fluids from a syringe into an animal subject, comprising;

a housing;

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a plunger drive ram bidirectionally movable along an axis and mounted within said housing;

a motor drivingly coupled to said drive ram to selectively advance and retract said drive ram along said axis into and out of said housing;

a coupling mechanism operatively connected to said plunger drive ram;

a syringe for mounting to said injector comprising a cylindrical barrel, a plunger snugly slidable in said cylindrical barrel, said plunger having a rearwardly facing drive ram engaging coupling element thereon in the shape of a rearwardly facing extension, wherein no two adjacent transverse cross-sections of said rearwardly facing extension exhibit discontinuity in area when compared one to another along the portion of said extension adapted to be within an the area enveloped by a said coupling mechanism, and said rearwardly facing extension does not extend outside of said cylindrical barrel in at least one position of said plunger, and a discharge tip in fluid communication with said cylindrical barrel; and

a movable face plate used to position a syringe relative to said injector housing to permit said drive ram to engage and move said plunger within said syringe.

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- 9. (Previously Presented) The injector of claim 8 further comprising injector mating sections, said syringe further comprising syringe mating sections positioned in a plane perpendicular to the axis of the body of the syringe and arranged so as to align with the injector mating sections.
- 10. (Original) The injector of claim 8, wherein said face plate further comprises a rotatable lever used for translatory motion of said face plate, said lever movable between locked and unlocked positions, wherein motion of said lever to said locked position causes attachment of a syringe to said injector housing by translating said rearward facing coupling element of said syringe plunger against a coupling mechanism of said plunger drive ram to facilitate cooperative movement of said syringe plunger and said plunger drive ram to inject fluids into said animal subject.
- 11. (Original) The injector of claim 10 wherein movement of said rotatable lever from said locked to said unlocked position results in translatory movement of said face plate along a plane perpendicular to the axis of said plunger drive ram to disengage said rearward facing coupling element of said syringe plunger from a coupling mechanism of said plunger drive ram.

12. (Currently Amended) A syringe for mounting to an injector for injecting fluids into an animal subject, said syringe comprising:

a cylindrical barrel;

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a plunger snugly slidable in said cylindrical barrel, said plunger having a rearwardly facing drive ram engaging coupling element thereon in the shape of a rearwardly facing extension, wherein no two adjacent transverse cross-sections of said rearwardly facing extension exhibit discontinuity in area when compared one to another along the portion of said extension adapted to be within an the area enveloped by a coupling mechanism, and said rearwardly facing extension does not extend outside of said cylindrical barrel in at least one position of said plunger; and

a discharge tip in fluid communication with a forward end of said cylindrical barrel.

13. (Previously Presented) A syringe for mounting to an injector for injecting fluids into an animal subject, said syringe comprising:

a cylindrical barrel;

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a plunger snugly slidable in said cylindrical barrel, said plunger having a rearwardly facing drive ram engaging coupling element thereon in the shape of a rearwardly facing extension, wherein said rearwardly facing extension includes a knurled interior cavity and said rearwardly facing extension does not extend outside of said cylindrical barrel in at least one position of said plunger; and

a discharge tip in fluid communication with a forward end of said cylindrical barrel.